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The bureaus will undertake the work of providing information relating to United States, Canadian, British and other English-speaking universities for the use of students, undergraduates and others. They will also provide information relating to educational tours of any description in English-speaking countries, and the arrangement of tours suitable to the needs of the inquirer with a view to his obtaining the greatest facilities for education with a *minimum* of expense. Furthermore it will be their duty to provide information as to the best places for the study of educational, governmental, industrial and social problems in the United States, Canada and the United Kingdom, and other parts of the empire, as well as to provide introductions to leaders in the above-named spheres of activity, besides undertaking the organization and conduct of special tours for educational purposes, if necessary.

It is proposed to provide 28 traveling scholarships, 14 of these being available for universities in the United Kingdom, 10 for universities in America and 4 for universities in Canada. The arrangements will be controlled by general committees, one for the United Kingdom and one for Canada and the United States, unless it is found necessary to inaugurate a separate committee for each of the latter.

THE WINNIPEG MEETING OF THE BRITISH ASSOCIATION

SOME further announcements have been made in regard to the seventy-ninth annual meeting of the British Association for the Advancement of Science, to be held at Winnipeg from August 25 to September 1.

The inaugural meeting will be held on Wednesday, August 25, at 8.30 P.M., when Professor Sir J. J. Thomson, Sc.D., D.Sc., F.R.S., assumes the presidency, in succession to Mr. Francis Darwin, M.A., M.B., LL.D., F.R.S., and will deliver an address. On Thursday, August 26, at 8.30 P.M., the first evening discourse will be delivered by A. E. H. Tutton, M.A., D.Sc., F.R.S., on "The Seven Styles of Crystal Architecture." On Tuesday, Au-

gust 31, at 8.30 P.M., the second evening discourse will be delivered by Professor W. A. Herdman, D.Sc., F.R.S., on "Our Food from the Waters." Lectures to the citizens of Winnipeg will be delivered in the Walker Theater by Professor Harold B. Dixon, M.A., F.R.S., on "The Chemistry of Flame," on Monday evening, August 30; and by Professor J. H. Poynting, D.Sc., F.R.S., on "The Pressure of Light," on Wednesday evening, September 1. The concluding meeting will be held in the legislative chamber, Parliament Building, on Wednesday, September 1, at 3 P.M.

Garden parties will be arranged on several afternoons during the meeting, including those given at the historic Lower Fort Garry by the commissioner of the Hudson's Bay Company and at the Provincial Agricultural College. Evening receptions are intended to be held by the Lieutenant-Governor at Government House and by the local executive committee.

Excursions will be arranged on Saturday, August 28, to points of interest in the vicinity of Winnipeg, including Stony Mountain and the municipal stone quarries; Lake Winnipeg, St. Andrew's Rapids and Selkirk; the wheat fields of Manitoba; the hydro-electric plant on the Winnipeg River. Members will also have the opportunity of visiting the following works in the city of Winnipeg: Canadian Pacific Railway shops and yards, Canadian Northern Railway shops, Grand Trunk Pacific Railway shops (under construction), Ogilvie flour mills, western Canada flour mills, municipal high-pressure plant and artesian well system.

An excursion will be arranged for mineralogists and geologists to the Cobalt district before the meeting. Headquarters for visitors at Cobalt will be at the office of Mr. A. A. Cole, Mining Engineer of the Temiskaming and Northern Ontario Railway and a program will be arranged for August 17 and 18. A visit to Sudbury is also contemplated after that to Cobalt. Further information may be obtained from Professor W. G. Miller, pro-

vincial geologist, Bureau of Mines, Toronto, Ontario; or from Mr. Cole.

An excursion of ten days after the meeting to the Rocky Mountains and the Pacific Coast is contemplated. Accommodation in the special train will be limited to 150 invited members, including 25 ladies.

Those proposing to attend the Winnipeg meeting can obtain from any railway ticket agent in eastern or western Canada a standard convention certificate which when properly validated in Winnipeg will enable them to return over the same route to the initial starting point without charge. Such certificates will be sold from August 16 to August 23 and will be valid for return until October 31. The fare from Quebec or Montreal to Winnipeg is \$36.

It will be remembered that members of the American Association for the Advancement of Science will be admitted as full members of the British Association, for the Winnipeg meeting (and entitled to receive the volume of Proceedings), on payment of a fee of \$5 (half the regular fee). It is important that those intending to be present should send in their names as soon as possible; printed matter bearing on the meeting will be gladly furnished by the local secretaries, the University of Manitoba, Winnipeg.

THE DARWIN CENTENARY AT CAMBRIDGE

THE program of the commemoration began on the evening of June 22, when Lord Rayleigh, the chancellor of the university, welcomed to Cambridge the delegates, of whom there were two hundred and fifty, including thirty from the United States. On the following day addresses were presented by the delegates and speeches were made by the chancellor, Professor Hertwig, Professor Metchnikoff, Dr. Osborn and Sir E. Ray Lankester. In the afternoon there was a garden party at Christ's College, where Darwin was a student. There had been arranged there an extensive exhibition of portraits, manuscripts and other objects. To Christ's College the American delegates presented a bronze replica of the bust of Darwin by Mr.

Couper, presented by the New York Academy of Sciences to the American Museum of Natural History. In the evening there was a dinner with addresses by Mr. Balfour and Professor Poulton. This was followed by a reception at Pembroke College. On Thursday honorary degrees were conferred on twenty-one delegates whose names have already been printed in *SCIENCE* and Sir Archibald Geikie, president of the Royal Society, gave the Rede lecture on Darwin as a geologist. In the afternoon there was a garden party at Trinity College given by members of the Darwin family.

SCIENTIFIC NOTES AND NEWS

SIMON NEWCOMB, the great astronomer, born in Wallace, Nova Scotia, on March 12, 1835, died from cancer at his home in Washington in the early morning of July 11.

AMONG the honors awarded on the birthday of King Edward are knighthoods to Mr. Francis Galton, Professor J. Larmor, Mr. R. H. I. Palgrave and Professor T. E. Thorpe. Sir Dyce Duckworth and Mr. Henry Morris, president of the Royal College of Surgeons, received baronetcies; Dr. W. Schlich was appointed a Knight Commander of the Order of the Indian Empire (K.C.I.E.) and Mr. James Stuart has been made a privy councillor.

THE University of Manchester has conferred its doctorate of science on Professor Theodore W. Richards, professor of chemistry at Harvard; Dr. Otto Wallach, professor of organic chemistry at Göttingen, and Professor Henry E. Armstrong, professor of chemistry in the City and Guilds of London Technical Institute.

IN connection with the Darwin centenary celebrations Mr. Francis Darwin has been elected a foreign member of La Société Hollandaise des Sciences, Harlem, and a member of the American Philosophical Society, and Professor Sir George Darwin and Mr. Francis Darwin have been elected corresponding members of the Senckenbergische Naturforschende Gesellschaft, Frankfort, honorary members